

System Control Center OIL/PCB Discharge Report

Portland General Electric
Report for System Dispatchers' Oil/PCB Discharge

Reported by:	Tom Stodd
Date:	1-21-2009
Time:	1611
Department:	Environmental Services
Phone:	503-799-4526
Dispatcher:	Leon Verdoorn
Spill date:	
Spill time:	
Spill address:	Harborton Storage Yd, 12500 NW Marina Way, Portland
Pole or vault #: or substation:	
Whose property is involved?	
Type of Discharge:	Oil
PCB content known by sticker color:	
Hazardous Material?	No
Estimated quantity of spill (gallons):	10
Type:	
Estimated area of spill (sq ft):	70
Material or surface contaminated:	gravel
Type of water oil spilled into:	
Equipment description:	3.35 30.70 0.50 2.00 PCB content
Company NO.:	10016, 10207, 10539, 10022, and oil tank
KVA Size:	LTC Transformers
Serial NO.:	
Is there a fire?	No
Weather Conditions:	Dry
Comments	
Vehicle hit pole / pad?	No
Is EM&C handling the spill cleanup?	Yes
If not, who will be doing the cleanup?	
Comments	

presumed <1.0 ppm

Notifications (When Required)

Environmental services	Time
Substations	Time
Inside Hydroelectric Projects	Time
Electrical Equipment	Time
PHP 1 AND PHP 2	Time
Other	Time

HARBORTON STORAGE

Position	PGE #	Serial #	Year Mfg	Tank 1			Tank 2			Tank 3		
				(ppm)	Date	(gal)	(ppm)	Date	(gal)	(ppm)	Date	(gal)
<i>OIL Circuit Breakers</i>												
R148	20911	M-3221-102	1962	22.00	09/20/1996	68.00						
<i>LTC Transformers</i>												
	10879											
BR1-Spare	10480	19872-1	1968	19.00	02/24/1992	3945.00	16.00	02/24/1992	170.00			
BR2	10207	B359768	1951	30.70	05/03/2004	2785.00	28.60		165.00			
BR3	10016	5063726	1952	3.35	06/01/2005	3410.00			147.00			
Idle	10409	C-01071-5-1	1961	8.00	06/25/1990	7275.00	28.00	11/13/1998	188.00			
WR10	10846	332747-03-1	2005									
<i>Non-LTC Transformers</i>												
BN6	10260	B501894	1953	24.00	12/10/1992							
BR1	10223	ZA025B	2007	5.00	05/20/1992	2405.00						
BR1	10210	7370118	1957	42.10	08/20/2002	2410.00	0					
BR2	10022	6944614	1955	2.00	04/01/1994	2405.00						
Failed	10006	7370113	1957	1.90	01/12/2006	2410.00	84.00	10/12/1999				
FR2	10277	7370201	1958	10.00	02/25/1992	1215.00						
RK3	10187	6943879	1955	17.00	11/03/1994	1130.00						
Spare	10268	5061926	1950	0	12/19/2002	2000.00						
WR1	10520	PDB0289	1972	0	11/20/1995	2750.00						
<i>GSU Transformers</i>												
BRR8	10539	9C-1106	1972	-0.50	06/20/1997							
<i>OIL Capacitor Switches</i>												
R114	21181	1377	1969			25.00						
R122	21746		1980	7.40	06/29/2001							
R122	21105	1080	1968	25.00	03/01/1987	19.00						
R124	21747		1980	9.50	06/29/2001							
<i>Step Regulators</i>												
FR4	30001	7370018	1957	5.00	06/11/1997	935.00						
N210	30183	9596069	1950	41.00	06/15/1995	600.00						
R432	30344	33737-02002-3	1972	33.00	06/01/1991	537.00						
Spare	30347	33737-01174-4	1972	34.00	05/21/1996	512.00						
Spare	30349	33737-01199-2	1972	6.00	01/27/2000	512.00						
SPARE	30286	6547804	1959	33.00	06/30/1998	960.00						
SPARE	30378	1-3759-413311	1976	8.00	01/27/2000	502.00						
<i>Capacitor Banks</i>												
	63893		1992	-1.00								

Configuration

STACK TYPE

Listing of Oil-Filled Substation Equipment

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Capacitor Banks

					<u>Configuration</u>
	60761		1968		Open Rack
	60791		1969		Open Rack
	60794		1969		Open Rack
	63892		1992	-1.00	STACK TYPE
SPARE	60749		1968		Open Rack
SPARE	60606	37F589G105	1965		Unknown Config.

Sta. Serv. Transformers

ALTSS	63792	881501027	1988	-1.00	03/12/1991	10.00
ASSV	63636	4506789	1919	15.00	07/03/1995	10.00

Metering Transformers

	60011					
	60511	61J10207	1962			
	60512	61J10301	1962			
	60678	FRM TAG70081				
	60682	D573731	1966			
	63007		1973			
	63009		1973			
B102	60111	3118418				
B106	60112	B311951				
B118A	64073	7342576	1973	6.00	05/22/1996	
B118C	64074	7342575	1973	6.00	05/22/1996	
B262	60114	3200147				
BUSPT	60110	3200150				
OPC	60923	70K4200				32.00
OPC	60924	70K4201				32.00
SPARE	60774	D599877	1968			
STMW	63008		1973			



PORTLAND GENERAL ELECTRIC OIL SPILL REPORT (Form 1058)

For recording the details associated with fuel and oil spill reporting
and for documenting the cleanup activities.

SECTION I - REPORT THE FOLLOWING SPILL INFORMATION TO SYSTEM LOAD DISPATCHER (464-8343)			
DATE 1/21/09	TIME 1611	REPORTED BY Tom Stodd	<input type="checkbox"/> AREA SECURED and SPILL CONTAINED
DEPARTMENT ENVIRONMENTAL SERVICES		DISPATCHER LEON VERDOORN	
SPILL ADDRESS HARBORTON SUBSTATION (12500 NW MARINA WAY) PORTLAND			
CAUSE OF SPILL <input type="checkbox"/> Weather / Tree Fall <input type="checkbox"/> Vehicle Hit Pole / Pad <input checked="" type="checkbox"/> Equipment Malfunction			ID OF PERSON AT FAULT (if not PGE responsibility)
WHOSE PROPERTY IS INVOLVED? <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> PGE		TYPE OF PGE PROPERTY INVOLVED? <input type="checkbox"/> Vault <input checked="" type="checkbox"/> Substation <input type="checkbox"/> Other ()	
POLE, VAULT or SUBSTATION # HARBORTON			
TYPE OF DISCHARGE <input type="checkbox"/> Oil / Hydraulic Fluid <input type="checkbox"/> Fuel <input checked="" type="checkbox"/> Oil with potential PCB content <input type="checkbox"/> Other ()			
PCB CONTENT KNOWN BY STICKER <input type="checkbox"/> <1 (blue) <input type="checkbox"/> <15 (red) <input type="checkbox"/> <48 (black) <input type="checkbox"/> Non-PCB (green) <input type="checkbox"/> No Sticker			
PCB OIL SAMPLE COLLECTED? <input type="checkbox"/> No <input type="checkbox"/> Yes		SAMPLE COLLECTED BY?	LAB ANALYSIS RESULTS (PCB) DATE 3 PPM 31 PPM <1 PPM 2 PPM
ESTIMATED QUANTITY OF SPILL IN GALLONS 10		ESTIMATED AREA OF SPILL IN SQUARE FEET 70	
MATERIAL OR SURFACE CONTAMINATED (check all that apply) <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil / Gravel <input type="checkbox"/> Asphalt / Concrete <input type="checkbox"/> Vegetation <input type="checkbox"/> Bottomless Vault <input type="checkbox"/> Other ()			
TYPE OF WATER/OIL SPILLED INTO (check all that apply) <input type="checkbox"/> Ditch <input type="checkbox"/> Storm Drain / Sewer <input type="checkbox"/> Stream / River <input type="checkbox"/> Lake			
EQUIPMENT DESCRIPTION <input checked="" type="checkbox"/> Transformer S <input type="checkbox"/> Capacitor <input checked="" type="checkbox"/> Other (OIL TANK)		MORE THAN ONE PIECE OF LEAKING EQUIPMENT INVOLVED? <input checked="" type="checkbox"/> Yes How many? 5	
SERIAL # (S)		KVA SIZE (S)	COMPANY NO. (S) 10016, 10207, 10539, 10022
IS THERE A FIRE? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		WEATHER CONDITIONS: <input type="checkbox"/> Dry <input type="checkbox"/> Wet	
COMPLETED BY JERRY THOMAS		PHONE 849-2659	

SECTION II - DOCUMENT THE SPILL WAS CLEANED UP			CLEANUP TRANSFERRED TO EM&C SPILL RESPONSE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
DATE CLEANUP STARTED 1/22/09	TIME 8:45AM	BY EM&C	
CLEANUP MATERIAL (check all that apply) <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Asphalt <input type="checkbox"/> Vegetation <input type="checkbox"/> Concrete <input type="checkbox"/> Other ()			
METHOD (check all that apply) <input checked="" type="checkbox"/> Soil Removal <input type="checkbox"/> Surface Washing <input type="checkbox"/> Pumping <input type="checkbox"/> Other ()			
WHEN SOIL REMOVAL: DEPTH (INCHES) 4	VOLUME OF SOIL (CUBIC FEET) 5	VOLUME OF WATER RECOVERED (GALLONS)	
PLACE CONTAMINATED EQUIPMENT AND MATERIALS IN PROPERLY DATED AND LABELED CONTAINERS AND VERIFY COMPLETION OF "REPORT FOR TRANSPORTING ELECTRICAL EQUIPMENT AND MATERIAL" (PGE FORM 0080) BY WRITING THE SEQUENTIAL NUMBER FROM TOP OF THE FORM HERE: FORM 0080, NO. IMMEDIATELY TRANSPORT CONTAINERS TO PSC, OR APPROPRIATE TEMPORARY STORAGE AREA.			
DATE CLEANUP COMPLETED 1/22/09		(IF DELAYED, EXPLAIN BELOW) ONGOING WILL MONITOR SUBSTATION EQUIPMENT	
THE CLEANUP REQUIREMENTS HAVE BEEN MET AND INFORMATION IN THIS REPORT IS TRUE TO THE BEST OF MY KNOWLEDGE.			
Signed: Jerry Thomas (Foreman/Spill Coordinator)		Date: 1/22/09	

Keep original at facility or send to EM&C Spill Response; Copy to Environmental Services

**System Control Center
OIL/PCB Discharge Report****Portland General Electric
Report for System Dispatchers' Oil/PCB Discharge**

Reported by:	Dave Foreman
Date:	8-3-2009
Time:	1603
Department:	em&c
Phone:	503-572-1415
Dispatcher:	Leon Verdoorn
Spill date:	8-3-09
Spill time:	1530
Spill address:	Harborton Storage Yard
Pole or vault #: or substation:	
Whose property is involved?	
Type of Discharge:	Oil
PCB content known by sticker color:	Blue < 1
Hazardous Material?	No
Estimated quantity of spill (gallons):	5
Type:	
Estimated area of spill (sq ft):	50
Material or surface contaminated:	gravel
Type of water oil spilled into:	
Equipment description:	
Company NO.:	10409
KVA Size:	16.8 mva
Serial NO.:	
Is there a fire?	No
Weather Conditions:	Dry
Comments	
Vehicle hit pole / pad?	No
Is EM&C handling the spill cleanup?	Yes
If not, who will be doing the cleanup?	
Comments	

Notifications (When Required)

Environmental services	Time
Substations	Time
Inside Hydroelectric Projects	Time
Electrical Equipment	Time
PHP 1 AND PHP 2	Time
Other	Time



PORTLAND GENERAL ELECTRIC OIL SPILL REPORT (Form 1058)

SECTION I - SECURE AND CORDON OFF THE SPILL SITE

Discharge contained, oil flow stopped.	DATE	TIME
Areas accessible to the public and PGE employees have been cordoned off to prevent entry.	DATE	TIME

SECTION II - REPORT THE FOLLOWING SPILL INFORMATION TO SYSTEM DISPATCHER (464-8343)

DATE 8/03/09	TIME 1603	REPORTED BY DAVE FOREMAN
DEPARTMENT EM&C	DISPATCHER LEON VERDOORN	
SPILL ADDRESS HARBORTON STORAGE YARD		
POLE OR VAULT NO. (SUBSTATION)	ID OF PERSON AT FAULT IF NOT PGE RESPONSIBILITY	
WHOSE PROPERTY IS INVOLVED? <input type="checkbox"/> Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> PGE		
TYPE OF DISCHARGE <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Fuel <input type="checkbox"/> PCB content - unknown		
PCB CONTENT KNOWN BY STICKER <input checked="" type="checkbox"/> <1 (blue) <input type="checkbox"/> <15 (red) <input type="checkbox"/> <48 (black) <input type="checkbox"/> Non-PCB (green)		
ESTIMATED QUANTITY OF SPILL IN GALLONS 5	ESTIMATED AREA OF SPILL IN SQUARE FEET 50	
MATERIAL OR SURFACE CONTAMINATED <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Asphalt <input type="checkbox"/> Vegetation <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Other GRAVEL		
TYPE OF WATER OIL SPILLED INTO <input type="checkbox"/> Ditch <input type="checkbox"/> Storm Drain <input type="checkbox"/> Sewer <input type="checkbox"/> Vault <input type="checkbox"/> Stream/River <input type="checkbox"/> Lake		
EQUIPMENT DESCRIPTION <input checked="" type="checkbox"/> Transformer <input type="checkbox"/> Capacitor <input type="checkbox"/> Other		
SERIAL	KVA SIZE 16.8	COMPANY NO. 13409
IS THERE A FIRE? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		WEATHER CONDITIONS: <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet
COMPLETED BY JERRY THOMAS		PHONE 849-2659

SECTION III - DOCUMENT THE SPILL WAS CLEANED UP

DATE CLEANUP STARTED 8/03/09	TIME 1 PM	BY EM&C
CLEANUP TRANSFERRED TO EM&C RESPONSE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
LAB ANALYSIS RESULTS (PCB) < 1	DATE	
CLEANUP MATERIAL <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Asphalt <input type="checkbox"/> Vegetation <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Other		
METHOD <input checked="" type="checkbox"/> Soil Removal <input checked="" type="checkbox"/> Surface Washing <input type="checkbox"/> Pumping		
IF SOIL REMOVAL: DEPTH (INCHES) 3	VOLUME (CUBIC FEET) 5	
PLACE CONTAMINATED EQUIPMENT AND MATERIALS IN PROPERLY DATED AND LABELED CONTAINERS AND VERIFY COMPLETION OF "REPORT FOR TRANSPORTING ELECTRICAL EQUIPMENT AND MATERIAL" (PGE FORM 0080) BY WRITING THE SEQUENTIAL NUMBER FROM TOP OF THE FORM HERE: FORM 0080, NO. _____		
IMMEDIATELY TRANSPORT CONTAINERS TO STOREROOM.		
DATE CLEANUP COMPLETED 8/03/09	(IF DELAYED, EXPLAIN BELOW) STILL WORKING ON TRANSFORMER	
THE CLEANUP REQUIREMENTS HAVE BEEN MET AND INFORMATION IN THIS REPORT IS TRUE TO THE BEST OF MY KNOWLEDGE.		
Signed: Jerry Thomas (Foreman/Spill Coordinator)		Date: 8/03/09

Copy to: (1) Environmental Services; (2) Transformer Shop

System Control Center OIL/PCB Discharge Report

Portland General Electric
Report for System Dispatchers' Oil/PCB Discharge

Revised: No
Reported by: JIM CHARETEY → Jim Chartrey # 8190
Date: 12-8-2009
Time: 2:46 PM
Department: PSES
Phone: 464-8190
Dispatcher: NOBLE
Spill date: 12/8/09
Spill time: 1410
Spill address: HARBORTON SUB
Pole or vault #: HARBORTON
or substation: HARBORTON
Whose property is involved?
Type of Discharge:
PCB content known by sticker color:
Hazardous Material? No
Estimated quantity of spill (gallons): 15
Type:
Estimated area of spill (sq ft): 20
Material or surface contaminated: INSIDE TANK
Type of water oil spilled into:
Equipment description: Other
Company NO.: TANK #2
KVA Size:
Serial NO.:
Is there a fire? No
Weather Conditions: Dry
Comments: COLD
Vehicle hit pole / pad? No
Is EM&C handling the spill cleanup? Yes NO
If not, who will be doing the cleanup?
Comments: FUEL OIL SPILLED WHEN REMOVING TANK.

Notifications (When Required)

Environmental services	Time
Substations	Time
Inside Hydroelectric Projects	Time
Electrical Equipment	Time
PHP 1 AND PHP 2	Time
Other	Time

ES-272-96
QA 02-5

Date: June 13, 1996

To: George Normine

From: Dennis Norton

Request for

Subject: Harborton Storage Yard

In response to your memo dated May 9, 1996, we make the following comments and recommendations. There is no need to do additional soil sampling and testing at Harborton for the small spills. The soils involving the small spills should be cleaned up and given to Mark Sloan for disposal. There are also a few leaks from surplus equipment at Harborton that should be fixed or contained in some manner. These two problems have been brought to the attention of Ken Merz and he said he would take care of them.

I can extend the completion date for the small spills until July 31, 1996.


The larger oil spill next to one of the skid tanks can be left alone. ES wants to use that site to test a bioremediation product to evaluate how effective it is in destroying the oil in the soil. If this product is effective in dealing with oil in soil, we will recommend that it be used on new and old oil spills in substations. We are also testing this product to determine if it is effective at destroying PCB in soil.

I will extend the time for treating the large spill until December 31, 1996 to allow time for the bio-remediation product to be tried on this spill.

Date: December 26, 1996

ES-613-96
QA 02-5

To: George Normine

From: Rick Hess 

Subject: Reversal in Position on "Required Action" in Environmental Compliance Review

In a Environmental Compliance Review (ECR) report for the Harborton storage area in October 1995, one of the required actions listed stated that a relatively large oil spill adjacent to an oil storage skid tank be cleaned up. After reviewing new information about the health effects of transformer oil, Environmental Services (ES) will cancel our requirement for cleaning up this spill at Harborton.

In addition to the new information, ES investigated the possible use of bioremediation agents to destroy the oil in the ground. Laboratory experiments were not successful so this method of cleanup was not tried.

The new health effects information was prepared by CH2M-Hill for BPA. BPA, with EPRI support, has used this information in Washington, Oregon and Idaho to develop new oil spill cleanup standards for transformer oil. The risk assessment information states that the threshold level for health effects for humans is about 50,000 ppm. From a practical standpoint the acceptable nuisance level for transformer oil is much less than 50,000 ppm. At this level, oil in soil is at such a high concentration the oil starts to separate from most soils.

In Oregon, the rule making development is on hold until the DEQ finishes its new environmental cleanup rules. The new rule for cleanup of transformer oil should be completed sometime in 1997. I think that the cleanup standard for transformer oil will be 10,000 ppm.

At Harborton, the soil in the spill area was sampled and all of the oil levels were below 5,000 ppm. The surface oil has been washed by rain so oil is not being tracked by vehicles. The oil did not contain any PCB. The oil in the soil will degrade naturally with time. The oil is not impacting any surface or ground water. This information is the basis for taking no further action for this spill. If the land use changes and the soil will be disturbed, then the soil contamination will need to be reevaluated. I will make sure that the drawings or other appropriate documentation is made so that people will know that there is some contamination in the soil.

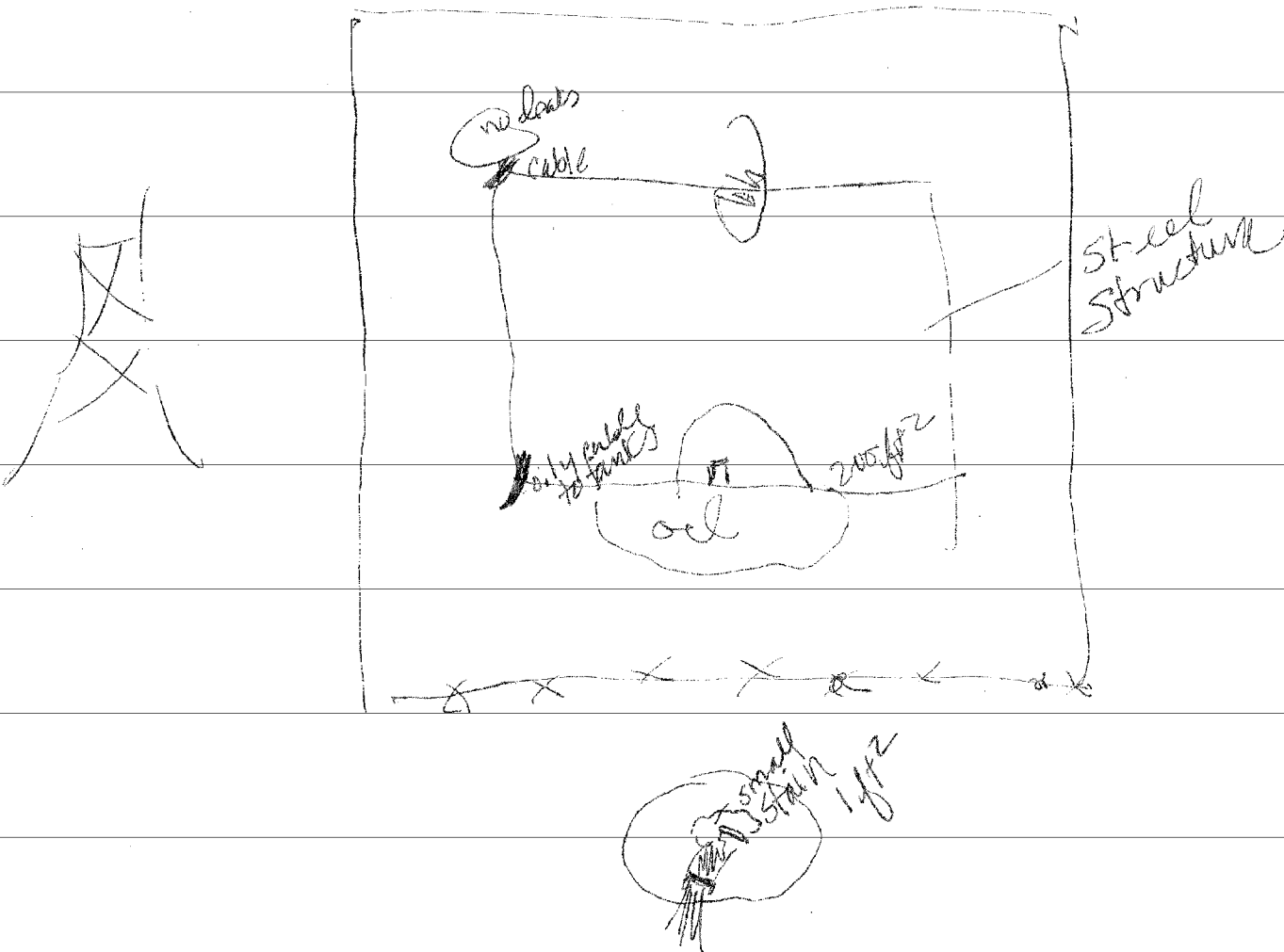
c: Dennis Norton

From: DAVID VANBOSSUYT
To: HQ4.EM3.Rick Hess
Date: 12/3/97 2:38pm
Subject: Old Oil Spill

Rick, Many years ago we had an Oil Cooled underground tie line across the willamette @ Harborton. It was replaced by the really tall steel tower overhead line. The oil filled cables were abandoned in place. The steel structure and the old rectangular tanks (on the steel approx 10' off the ground) are still in place. Over the years oil was spilled within this fenced in area. Recently, someone has pulled out of the ground some about 20 feet of the old cable and stole it for scrap. There is oil in the dirt at the spot where the cable was cut.

My question: What should we be doing about cleaning up this old spill and the more recent one?

CC: HQ4.EM3.Dennis Norton











12 4'97

SYSTEM LOAD DISPATCHERS' OIL/PCB DISCHARGE WORKSHEET

PART I

INITIAL CALL INFORMATION

1. Date 12-5-97 Time 1615 Reported by BPA L.D. LOREN TROOP Dept BPA Phone# _____
Dispatcher WESSCLINK Spill Occurred: Date UNKNOWN Time _____
2. Spill Address HARBORTON SUB (OLD)
Pole or Vault number _____ or Substation HARBORTON
3. Whose property is involved? Private _____, Public _____, PGE ☒.
4. Type of discharge: Oil ☒, Fuel _____, PCB content unknown ☒.
PCB content known by sticker color:
Blue <1 _____ Red <15 _____ Black <48 _____ Green (non-PCB) _____
5. Estimated quantity of spill in gallons 11 gal CAPACITY Estimated area of spill
UNKNOWN sq. ft.
Material or surface contaminated: water _____, soil ☒, asphalt _____,
other _____.
Type of water oil spilled into:
Ditch _____ Storm Drain _____ Sewer _____ Vault _____ Stream/River _____ Lake _____
6. Equipment description: Transformer _____ Capacitor _____ Other BREAKER
Equipment: Serial # 8289 kVA size PCB Company # _____
7. Is there a fire? No ☒, Yes _____. Weather conditions: Dry ☒, Wet _____
8. Is Landscaping handling the spill cleanup? _____ If not, who will be doing the
cleanup? _____

If the caller is a PGE employee, request that he remain on the site and take whatever measures he can to contain the discharge.

If a heavy flow is reported, an attempt should be made to dispatch any nearby line crew to the site to help contain the flow.

If the PCB drop box is requested notify Central Division Repair Dispatcher, 7774, or 231-7329, or 464-7772.

If an outside contractor's assistance is requested, contact the outside contractor for spill response listed on page 4.

Results of lab test (if samples taken) _____

From: Rick Hess
To: PSC.PS1(Al Ferreira)
Date: 12/8/97 1:49pm
Subject: 57 K.V. OIL FILLED CABLE ,HARBORTON SUB AREA -Reply -Reply

Al

The cleanup can be done most efficiently after the cable supports, cables, oil tanks and any other obstacles are removed from the site. Cleanup will have to be done in two phases if you can not remove the old equipment during the next month or two.

Rick

>>> Al Ferreira 12/05/97 09:15am >>>
Andy,I had the oil tested at OAL.Tank #1 1 PPM PCB,Tank #2 1PPM PCB.I will send you a copy of the test.I call load and report the oil spill.We will get Landscaping to clean it up.Thanks

>>> Andy Anderson 12/04/97 09:19am >>>
DAVE ,I HAVE CONTACTED AL FERREIRA TO LOOK INTO THE PAST OIL TESTS AT THE SITE OF THE SUBMERSABLE CABLE NEAR THE SUB. AND TO CAP CABLE THAT HAS BEEN CUT. I WILL CONTACT YOU AS SOON AS POSSABLE ON RESULTS.

From: Rick Hess
To: PSC.PS1(Al Ferreira, Howard Joham, Rick Syring), W...
Date: 12/18/97 3:05pm
Subject: 57 K.V. OIL FILLED CABLE ,HARBORTON SUB AREA -Reply -Reply
-Forwarded -Reply -Reply -Reply -Reply -

Dave

There are no rules or laws that require that we remove the cable from the river if the cable is not leaking. There are rules and laws that require cleanup of oil spilled into water. The fines associated with the violation of the spill cleanup rules vary depending on many factors including the ability of the owner to prevent the spill. As Howard mentioned and you know oil spill cleanup in water can be very expensive.

Pumping and flushing the oil from the cable, if this is possible, would greatly reduce the threat to the environment. If pumping and flushing the cable is possible, then the oil passage ways, if large enough, could be filled with oil adsorbent imbibitor beads. Imbibitor beads adsorb oil and would make the residual oil in the cable insulation immobile. Imbibitor beads have a diameter about the size of sand. The imbibitor beads would only be useful if the oil passage ways in the cable are porous so that the oil in the insulation could migrate to the beads.

I don't know the answer now, but I question PGE's obligation or possibly a requirement to remove abandoned cables and equipment from public or private property. I will check the Corp of Engineers or other rules to see if there is a requirement.

Rick

>>> Dave Lamb 12/10/97 07:26am >>>
Howard, Thanks for summarizing this. I will forward on to Steve Hawke. Al and I talked and agreed we would at a minimum remove the overhead structures at both ends, clean up any oil contamination and cap the cable. As you stated, we should look at some ways to pump the oil out of the cable. I would be interested in spending some money to do this if it is possible. I am also copying Rick Hess on this to see if there is some environmental laws that would require us to remove the cable crossing at this time.

If we have to remove some of the cable to clean up the property for sale, we will have to discuss the logistics of funding the \$100,000 removal of the whole river crossing.

>>> Howard Joham 12/09/97 01:56pm >>>
As far as I know the cable is not leaking below water line. The cable has been ventillized and is/has leaked on the ground next to the river. We don't really know if the cable is intact below water line as we can not see it and to find out would cost PGE nearly the same as to remove it.

We do know that there is still some oil in the cable and according to Al Ferreira the Environmental folk are concerned about it. Al also informed that the land is being readied for sale and PGE will need to clean up the site which would mean that we would need to remove the cable from the land and to

some point below water line. Once we remove part the cable below the water line we would need to remove or midigate the oil potential in order to keep the oil out of the water way.

Just on the practical side this cable has been idle, leaking oil and just a pain in the back side for years. When the cable breaks we may be headed for an environmental bad dream. I think we should remove the cable before this happen, it just that I don't know when it will happen or how as yet.

>>> Dave Lamb 12/09/97 10:12am >>>

I can't tell from the notes, is the idle cable leaking into the river/ river bank? Is there something that is needed to be done now?

>>> Howard Joham 12/09/97 09:51am >>>

I'll write up a Project Profile as the estimate to do the work is \$100,000. This would include removal of the two cables and steel structures

CC: HQ2.EM6 (Steve Hawke),

Jeff Dresser

From: Terry Worrell [Terry_Worrell@pgn.com]
Sent: Friday, February 04, 2000 9:30 AM
To: jdresser@bridgeh2o.com
Cc: Dennis_Norton@pgn.com; Lolita_Carter@pgn.com
Subject: A Revision to XPA Workplan Rev 3

I finally tracked down this oil spill at Harborton with non PCB info that has been nagging me for the past 2 weeks. Please revise Page 13 of your document. This concerns the list of oil spills. There actually was only one spill discovered on 12/4/97 (no spill on 12/5/97). What happened was this:

There was a structure for an under river cable. This structure was located outside the substation fenceline in front of the BPA tower. This structure was about 200 feet from the river. This structure housed a reservoir for oil in the cable, as well as other equipment. Well vandals broke through the fence around this structure and damaged the reservoir causing a spill. That's the first spill mentioned. Our EM&C dept was notified and they contained the spill, and planned to remove the structure/do the cleanup on another day.

The next day (12/5) a BPA field inspector happened along and saw the spill, but thought it came from another device which he called a breaker. This inspector called the spill into PGE's Load dispatched, and it got logged down as a separate spill. A mistake.

Days later EM&C removed the structure, fence and everything. That's why you can find a trace of this today.

So please correct your text accordingly. There was only one spill near Harborton in December 1997.